

Installation Guide

hp StorageWorks Business Copy EVA/MA/EMA 2.3 Host Agent for Linux

Product Version: 2.3

First Edition (September 2004)

Part Number: AA-RUQRA-TE

The HP StorageWorks Business Copy (BC) for enterprise virtual array (EVA), modular array (MA), and enterprise modular array (EMA) installation guide describes procedures for installing, reinstalling, and removing the BC host agent software.



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about this guide

This installation guide supersedes previous Business Copy (BC) host agent installation guides and provides information to help you:

- Understand BC host agent installation prerequisites
- Install BC host agent for Linux software on a host computer in a BC network
- Reinstall BC host agent software on a host computer
- Remove BC host agent software from a host computer
- Contact technical support for additional assistance

“About this Guide” topics include:

- [Overview](#), page 6
- [Conventions](#), page 7
- [Getting help](#), page 8

Overview

This section covers the following topics:

- [Intended audience](#)
- [Prerequisites](#)

Intended audience

This guide is intended for customers and HP authorized service providers. In addition to being familiar with BC, readers should also be knowledgeable of BC-supported:

- SAN fabric configurations
- Host operating system environments
- Storage systems
- Multibus configurations

Prerequisites

Before installing BC host agent software, consider the following items:

- Has the BC server software been installed on a BC server platform?
If not, install the BC server software before continuing. Refer to the *HP StorageWorks Business Copy EVA/MA/EMA v2.3 Getting Started Guide*¹ (AA-RVHPA-TE) for prerequisite information and the *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Server Installation Guide* (T3032-96202) for the installation procedure.
- Does the host computer on which the BC host agent software is being installed have visibility to a BC server platform in the same SAN environment? If not, refer to the *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Network Administration Guide*² (T3032-96301).

1. Hereafter referred to as BC Getting Started Guide.
2. Hereafter referred to as BC Network Administration Guide.

Conventions

Conventions consist of the following:

- [Document conventions](#)
- [Text symbols](#)

Document conventions

This document follows the conventions in [Table 1](#).

Table 1: Document conventions

Convention	Element
Blue text: Figure 1	Cross-reference links
Bold	Menu items, buttons, and key, tab, and box names
<i>Italics</i>	Text emphasis and document titles in body text
Monospace font	User input, commands, code, file and directory names, and system responses (output and messages)
<i>Monospace, italic font</i>	Command-line and code variables
Blue underlined sans serif font text (http://www.hp.com)	Web site addresses

Text symbols

The following symbols may be found in the text of this guide. They have the following meanings:



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or death.



Caution: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or data.

Tip: Text in a tip provides additional help to readers by providing nonessential or optional techniques, procedures, or shortcuts.

Note: Text set off in this manner presents commentary, sidelights, or interesting points of information.

Getting help

If you still have a question after reading this guide, contact an HP authorized service provider or access our web site: <http://www.hp.com>.

HP technical support

Telephone numbers for worldwide technical support are listed on the following HP web site: <http://www.hp.com/support/>. From this web site, select the country of origin.

Note: For continuous quality improvement, calls may be recorded or monitored.

Be sure to have the following information available before calling:

- Technical support registration number (if applicable)
- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

HP storage web site

The HP web site has the latest information on this product, as well as the latest drivers. Access storage at: <http://www.hp.com/country/us/eng/prodserv/storage.html>. From this web site, select the appropriate product or solution.

HP authorized reseller

For the name of your nearest HP authorized reseller:

- In the United States, call 1-800-345-1518
- In Canada, call 1-800-263-5868
- Elsewhere, see the HP web site for locations and telephone numbers: <http://www.hp.com>.

Installation Preparation

This chapter provides preparation information for installing BC host agent software. Refer to the BC Getting Started Guide for prerequisite information before installing BC.

Complete the installation preparation before beginning a BC host agent software installation.



Caution: Do not install the BC host agent before reviewing the BC server platform configuration. Installing BC in an unsupported configuration may cause the BC network to function improperly. For procedures on planning and verifying BC supported configurations, refer to the BC Network Administration Guide.

New installation preparation

Complete the following procedures before installing BC:

- [Coordinating Business Copy installation activities](#)
- [Verifying the Business Copy server configuration](#)
- [Verifying the host configuration](#)

Coordinating Business Copy installation activities

Before installing BC, ensure that:

- The BC host agent installation activities have been coordinated with users of the host; coordinating with other users prevents a disruption in host activities
- The BC host agent version being installed is compatible with the BC server for this BC network
- The BC server that supports the BC host agent installation is installed or updated before installing the BC host agent
- The BC server is running while installing the BC host agent

Note: HP strongly recommends that the BC server be running to allow the BC host agent installation software to establish communication with the BC server. If necessary, the BC host agent can be installed without the BC server running.

Verifying the Business Copy server configuration

Before installing the BC host agent, verify that the BC server:

- Has a version level that supports this host agent
- Remains running during the host agent update

Also, record the following BC server platform information for the BC host agent installation:

- Fully qualified network name (such as MyComputer.dept.corp)
- Unqualified network name (such as MyComputer)
- IP address (such as 11.22.33.44)

Make this information available during the BC host agent installation.

To view the network name and IP address of a BC server platform, browse to the BC server platform and log in. Both items are shown at the top of the home page.

When ready, go to the next section.

Verifying the host configuration

Before installing the BC host agent, verify that the host has BC-supported configurations and versions of the following:

- Host operating system version
- StorageWorks Solution Software kit
- FC HBAs and drivers

- StorageWorks Secure Path
- Multibus failover configuration with the storage controllers

This BC host agent is not cluster-aware, but can co-exist with HP Serviceguard for Linux clusters.

Refer to the BC Network Administration Guide and *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Host Agent for Linux Release Notes*¹ (T3032-98008) for specific requirements.

Visit <http://h18000.www1.hp.com/products/storage/software/bizcopyeva/index.html> for updated BC documentation and software.

When ready, go to “[Installing the Business Copy Host Agent](#)” on page 13 to start the installation.

1. Hereafter referred to as BC Host Agent Release Notes.

Installing the Business Copy Host Agent

This module assumes that “[Installation Preparation](#)” on page 9 has been read and all appropriate steps have been successfully completed. Complete the following procedures, in sequence, to install a BC host agent:

1. [Preparing for installation](#), page 14
2. [Starting the installation](#), page 15
3. [Completing the installation](#), page 29

Preparing for installation

Complete the following procedure to install the BC host agent software.

Note: To install BC successfully, the host computer must have at least 66 MBs of free disk space.

CD-ROM method

1. Locate the BC host agent CD-ROM.
2. On the host computer, open a terminal window and log on as a super-user.
3. Insert the CD-ROM into the CD drive.

An auto-run feature begins, extracting the BC host agent files to a default temporary folder on the host computer. After the files are extracted, setup begins.

4. Navigate to the folder on the CD-ROM containing the Linux files (./bc_23_linux_ha_install).

When ready, go to “[Starting the installation](#)” on page 15.

Web download method

1. Locate either the CD-ROM made from the BC download or the download file on the host computer.
2. Unzip the download file.
3. Locate and copy the bc_23_linux_install_ha.bin file to the host computer.
4. On the host computer, navigate to the folder containing the bc_23_linux_install_ha.bin file and extract the files.
5. Locate the bc_23_ha_linux_install.bin file on the host computer.

This file initiates the BC host agent installation.

When ready, go to “[Starting the installation](#)” on page 15.

Starting the installation

BC provides two installation methods for Linux: command console and GUI.

Note: The BC host agent installation script needs another application on the host computer to register BC with the local installer. This application is called Red Hat Package Manager (RPM) Builder. HP recommends installing RPM Builder (for example, 32-bit hosts require: `rpm-build-4.2.1-4.2.i386.rpm`) on the host computer before installing the BC host agent. HP does not recommend installing RPM Builder on systems that do not typically use RPM because serious issues might occur.

Unavailability of RPM Builder does not prohibit the BC host agent installation, but does prohibit BC from being registered on the host computer. On platforms that use RPM for installation management, BC becomes registered with the RPM database; however, do not use RPM to manage the installation.

Command console installation method

Complete the following procedure to install the BC host agent software.

Note: During the installation procedure, press **Enter** to choose the default response. To return to a previous step, enter `back`. To exit the installation script at any time, enter `quit`.

Note: Do not remove the BC host agent CD-ROM from the CD drive until the installation is complete. Removing the CD-ROM before the installation is complete may cause the installation to fail or BC to function improperly.

1. Enter `sh ./bc_23_linux_ha_install.bin` to start the installation.

General information displays as the installation script unpacks, followed by BC-specific information.

Note: Unpacking of the Java™ Runtime Environment (JRE) software segment can take 3–5 minutes.

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing CONSOLE Mode Installation
=====
Business Copy Host Agent (created with InstallAnywhere by Zero G)
-----

=====
Introduction
-----

InstallAnywhere will guide you through the installation of Business Copy (BC).
HP strongly recommends that you use an account with "super-user" or "administrator"
privileges before executing this installation script. If you are not logged in as root,
quit this install, log into the root account and execute this installation script again.

Respond to each prompt to proceed to the next step in the installation. If you want to
change something on a previous step, enter 'back'.

You may cancel this installation at any time by entering 'quit'.

PRESS <ENTER> TO CONTINUE:
```

Figure 1: Initiating the installation script

2. Press **Enter** to continue.
3. Review the BC license agreement and answer the question at the end.

Press **Enter** as necessary to scroll through the license agreement.

```
=====
BC License Agreement
-----

Installation and use of Business Copy v2.3 Host Agent requires acceptance of the
following License Agreement:

Business Copy EVA/MA/EMA License Agreement
Attention Notice

IMPORTANT: READ CAREFULLY BEFORE USING THIS PRODUCT.

.

.

DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N) :
```

Figure 2: License agreement

4. Enter **y** or **yes** to agree to these terms and continue the installation; enter **n** or **no** to
exit the installation script.

Entering **yes** provides a list of BC prerequisites.

Note: HP recommends exiting the installation if BC prerequisites have not been met or if doubts exist
as to whether the requirements are met. Take the necessary action to make sure that these
prerequisites are met and restart the installation.

```
=====
BC Prerequisites
-----
Please read before continuing:
Do not proceed until you have:
- Read the HP StorageWorks BC Network Administration Guide, BC Server Installation Guide,
.
.
.

CAUTION: Failure to properly address BC preinstallation requirements and compatibility
considerations can lead to reduced operational capability and failure of BC jobs.

PRESS <ENTER> TO CONTINUE:
```

Figure 3: BC Prerequisites

5. Carefully review the list of BC prerequisites and make sure each item has been addressed before continuing the BC host agent installation.

Note: If any of the operational considerations have not been addressed, exit the installation, address the items, and then restart the installation.

6. Press **Enter** to continue; enter `quit` to exit the installation script.

An option to select the BC installation folder displays.

- For initial installations, `/opt/` displays as the BC default installation folder.
- For reinstallations, the actual folder used during the previous installation displays as the default installation folder.

Note: If a previous BC installation exists on this host computer with customized `osvm.ini` attribute settings, HP recommends saving the `osvm.ini` file to an alternate location. Then, following the BC installation, use this saved file to reapply the customized attribute settings to the new `osvm.ini` file, if desired.

```
=====
Choose Install Folder
-----
Choose the base path you wish to install to. The files will be installed to a
subdirectory "CPQevm" of the path chosen.
Where would you like to install Business Copy
Default Install Folder: <BC_default_or_previous_folder>
ENTER AN ABSOLUTE PATH, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:
```

Figure 4: Installation folder option

7. Press **Enter** to continue using the BC default installation folder or enter an absolute path to the desired installation folder; enter `quit` to exit the installation script.

After determining the installation folder, the BC host agent software installation begins. Initially, a progress bar is displayed, followed by an BC server platform question.

Note: For reinstallations, the previous BC server platform name displays as the default.

```
=====
BC Server Platform Name
-----
Enter the BC server platform fully qualified name, unqualified name, or IP address:
BC server platform Name: (DEFAULT: <BC_server_platform_name/IP>):
```

Figure 5: BC Server Platform Name option

8. Enter the fully qualified name, unqualified name, or IP address of the BC server platform that supports this BC host agent.

Note: The BC server platform name is required to establish network communication between BC host agents and the BC server.

For example:

- If the BC server platform name is “MyAppliance” and the domain is “dept.com,” enter `MyAppliance.dept.com` for a fully qualified name.
- If the fully qualified name is `MyAppliance.dept.com`, enter `MyAppliance` as the unqualified name.
- If the BC server platform IP address is “11.22.33.44,” enter `11.22.33.44` for the IP address.

After entering the BC server platform name or IP address, a check is performed to verify communication. This check allows an incorrect BC server platform name to be corrected and also provides the opportunity to continue the BC host agent installation in the event that the LAN is down or the BC server platform is offline.

- If this check fails, [Figure 6](#) displays.

```
=====
Unable To Ping Host
-----
Unable to ping the BC server platform on this network. You can add the BC server platform
name to the sb.ini file at a later date. Do you want to keep this BC server platform name
and continue the installation?
->1- Yes
 2- No
ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:
```

Figure 6: Unsuccessful ping to the BC server platform

- Entering a 1 continues the installation using the BC server platform name entered in [Step 9](#).
- Entering a 2 displays [Figure 5](#) and continues the installation.

Select the platform name option that best fits the installation situation and continue the installation. Selecting Yes allows the setup to continue in the event that the LAN is down or the BC server platform is offline.

- If this check succeeds, [Figure 7](#) displays.

```
=====
Start BC Daemons
-----
Would you like to start the BC Daemons after the installation is complete? If you are
unsure as to whether or not to start the BC Daemons after the installation, please refer
to the BC Network Administration Guide.

->1- Yes
2- No

ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:
```

Figure 7: Start BC Daemons

9. Enter **y** or **yes** to agree to start the BC daemons; enter **n** or **no** to defer starting the BC daemons.
Refer to the Network Administration Guide for more information on starting and stopping BC daemons.

```
=====
Pre-Installation Summary
-----
Please Review the Following Before Continuing:

Product Name:
  Business Copy Host Agent

Install Folder:
  <selected_folder or /opt>

BC server platform:
  <BC_server_platform_name/IP>

Disk Space Information (for Installation Target):
  Required: 66,044,976 bytes
  Available: 123,456,789 bytes

PRESS <ENTER> TO CONTINUE:
```

Figure 8: Pre-Installation Summary

10. Press **Enter** to continue; enter **quit** to exit the installation.
The BC host agent software installation takes place.

```
=====
Additional Information
-----
To reinstall or remove the Business Copy software from this host computer, refer to the
BC Host Agent Installation Guide.

Please consult the BC Host Agent Release Notes before using Business Copy.

To submit comments regarding BC, send an email to BCFeedback@hp.com.

PRESS <ENTER> TO CONTINUE:
```

Figure 9: Additional Information

11. Carefully review the Additional Information provided.
12. Press **Enter** to continue.

```
=====
Installation Complete
-----
Congratulations. Business Copy v2.3 Host Agent has been successfully installed to:
<selected_folder or /opt>
PRESS <ENTER> TO EXIT THE INSTALLER:
```

Figure 10: BC host agent installation completion

13. Press **Enter** to complete the installation.

The BC host agent software is installed. This new BC-enabled host can now communicate with the BC server and participate in BC jobs. Refer to the BC Host Agent Release Notes before using BC.

GUI installation method

Complete the following procedure to install the BC host agent software.

Note: If installing BC in GUI mode, set the host computer color depth to at least 256 colors.

Note: Do not remove the BC host agent CD-ROM from the CD drive until the installation is complete. Removing the CD-ROM before the installation is complete may cause the installation to fail or BC to function improperly.

1. On the host computer, open a terminal window and log on as a super-user.
2. Enter `./bc_23_linux_ha_install.bin -i gui` to start the installation.

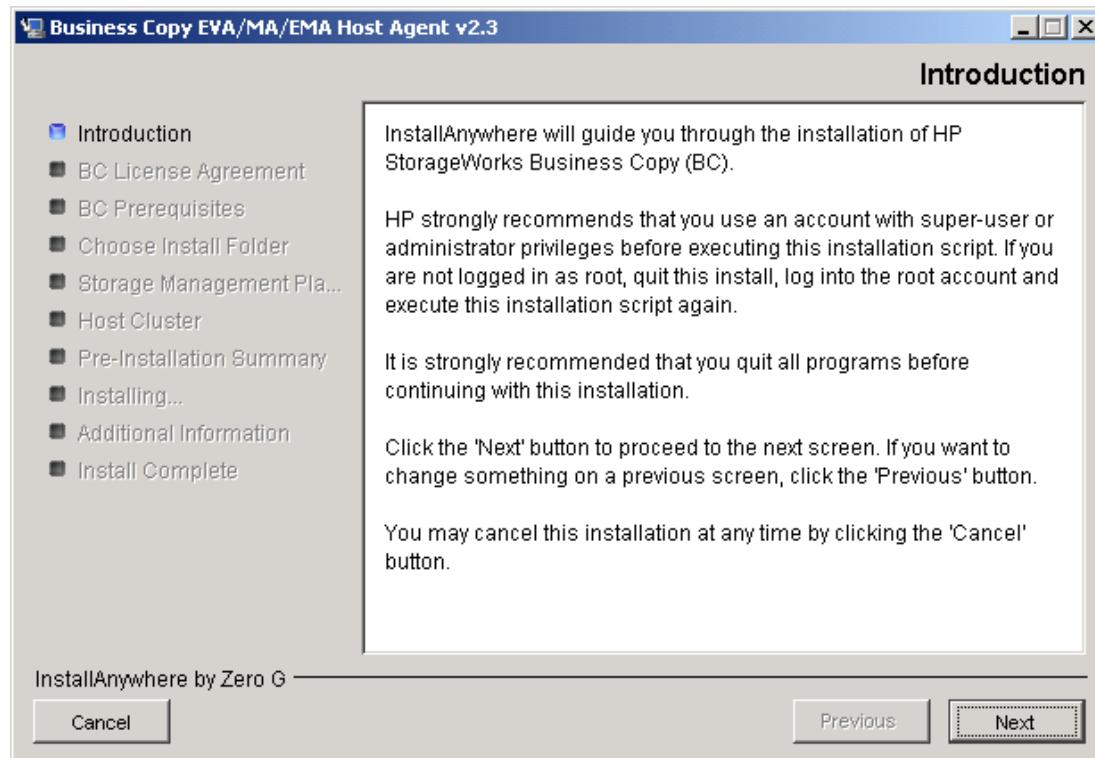


Figure 11: Introduction

Note: Click **Cancel** at any time to exit the installation.

3. Click **Next**.

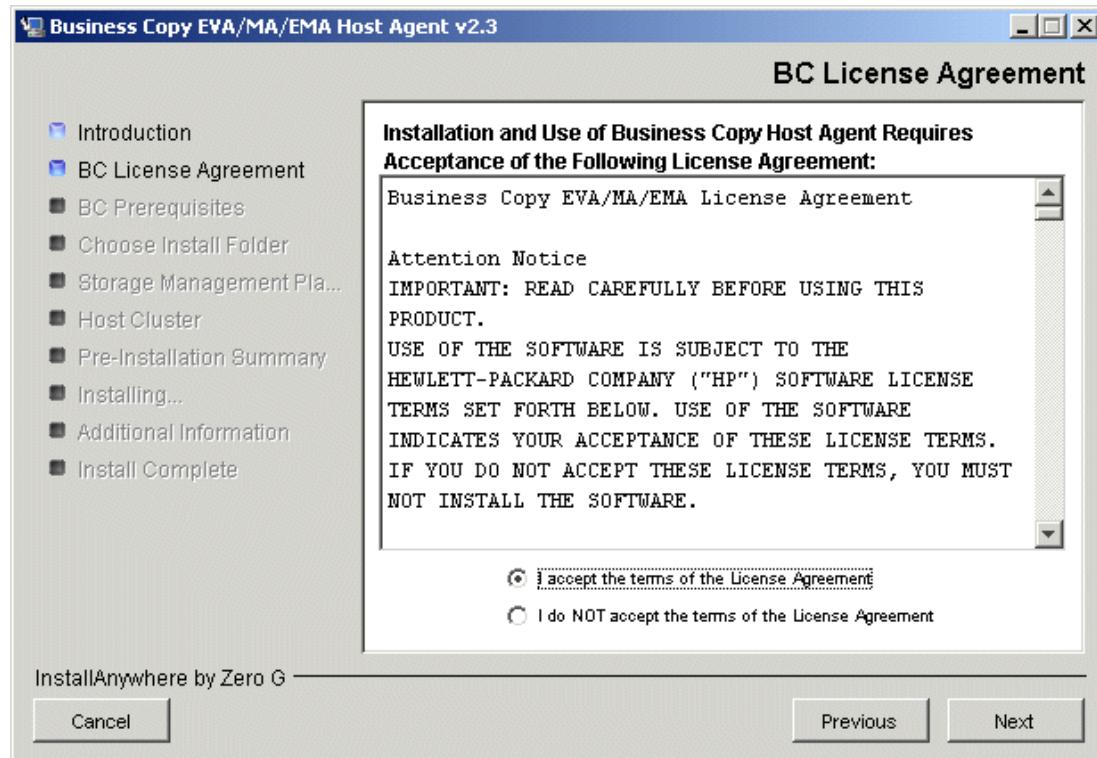


Figure 12: BC License Agreement

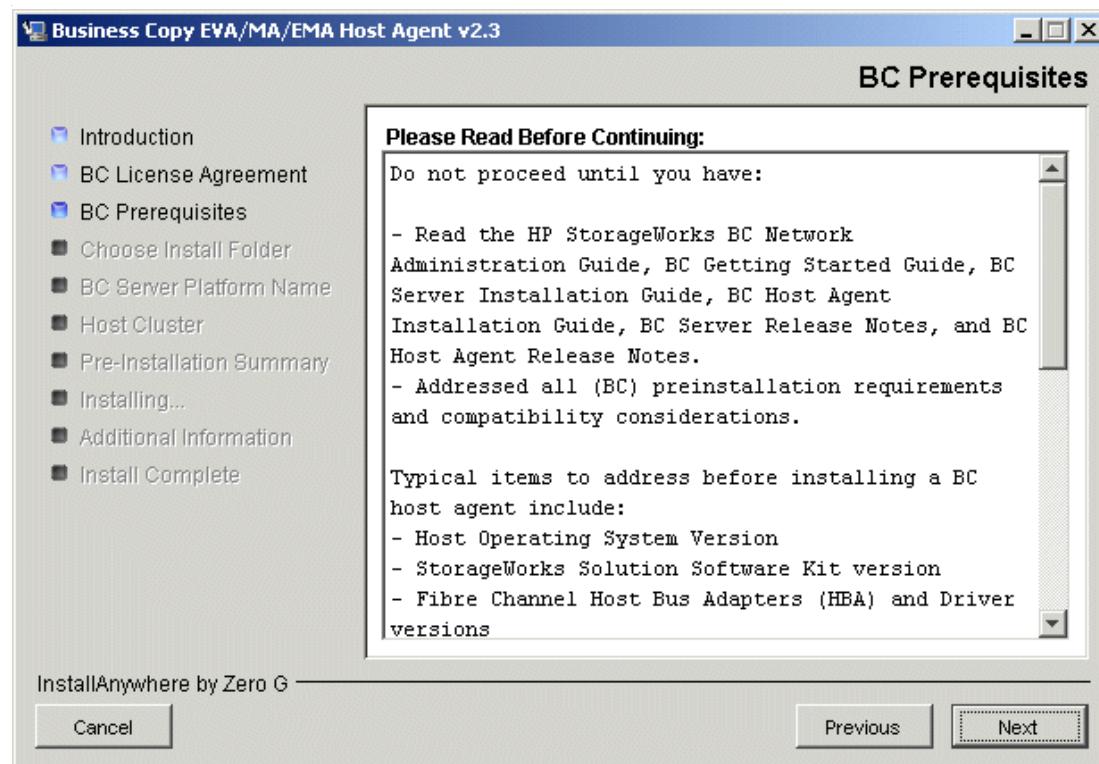
4. Carefully review the BC License Agreement terms before continuing with the installation.

Note: To continue installing the BC host agent software, the terms in the agreement must be accepted.

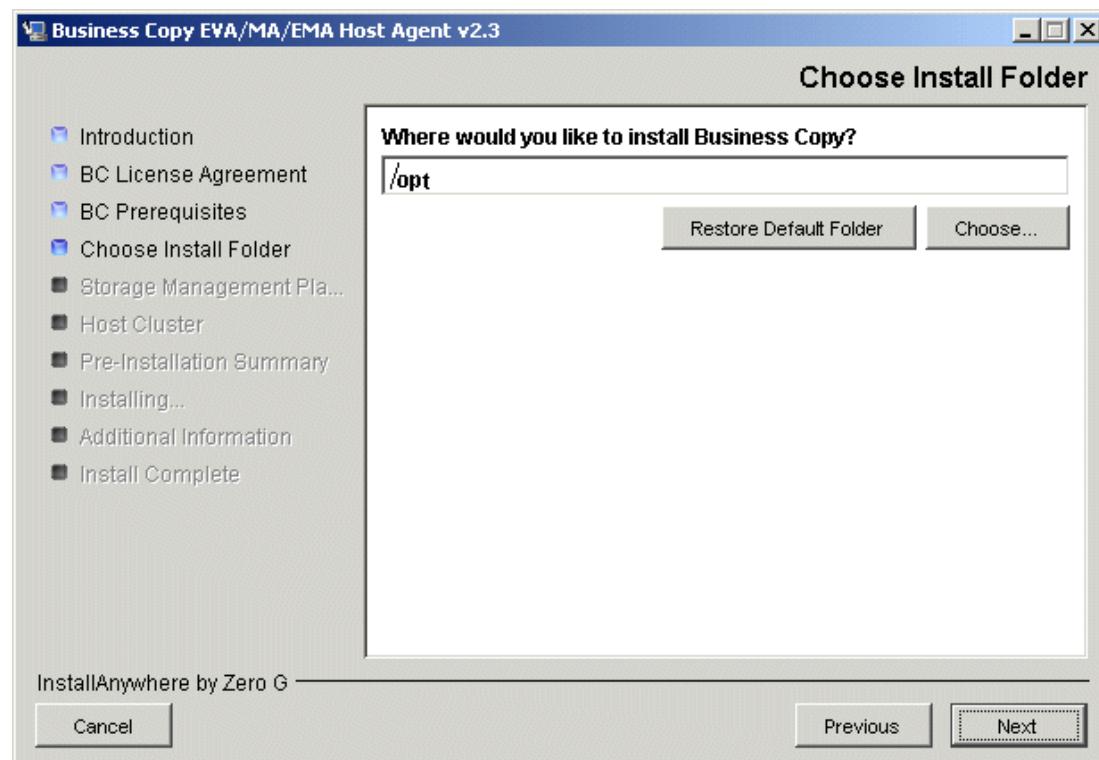
5. Click **I accept the terms of the License Agreement** to continue the installation.
6. Click **Next**.

Review these prerequisites and become familiar with each one. This window provides a reminder of items to verify or perform before continuing the BC host agent installation. Refer to the BC Getting Started Guide for detailed prerequisite information.

Note: If these prerequisites have not been met, or doubts exist as to whether the prerequisites are met, HP recommends clicking **Cancel** to exit the installation. Then, take the necessary action to make sure that the prerequisites are met and restart the installation.

**Figure 13: BC Prerequisites**

7. If the prerequisites are met, click **Next**.

**Figure 14: Choose Install Folder**

8. Click **Next** if the default destination folder is acceptable; otherwise, click **Choose** to browse to another installation folder and then click **Next**.

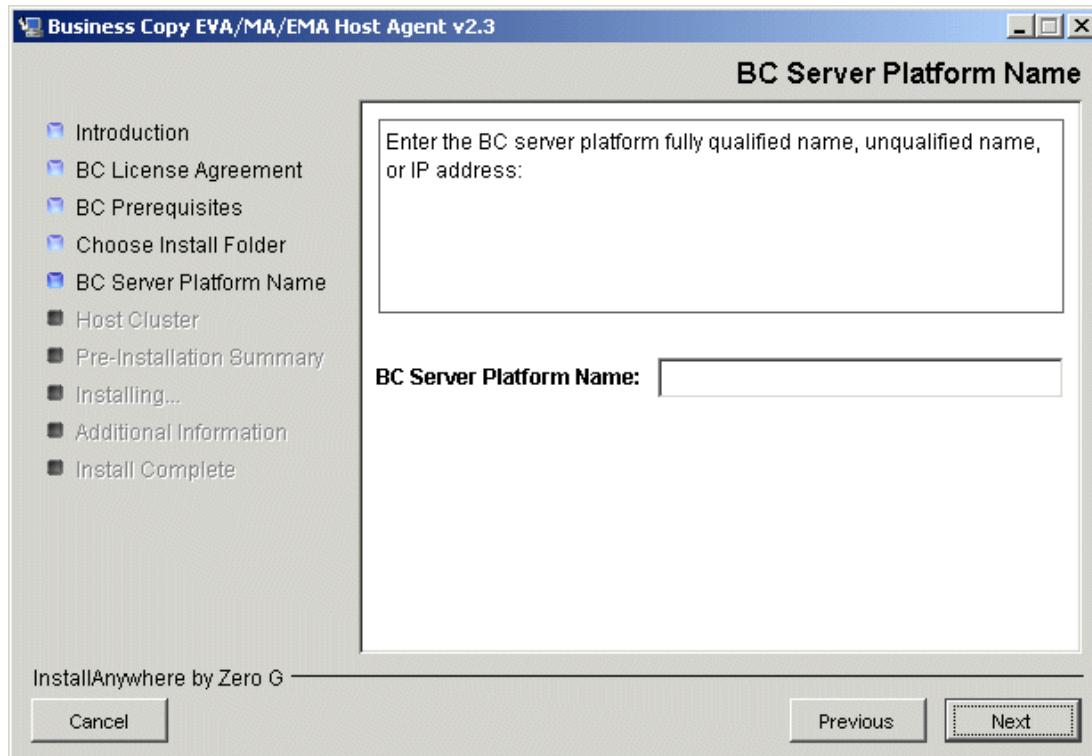


Figure 15: BC Server Platform Name

Note: For reinstallations, the previous BC server platform name displays as the default.

9. Enter the fully qualified name, unqualified name, or IP address of the BC server platform that supports this BC host agent.

Note: HP recommends using the fully qualified name when entering BC server platform name information. The BC server platform name is required to establish network communication between this BC host agent and the BC server.

10. Click **Next**.

A check is performed to verify communication. This check allows an incorrect BC server platform name to be corrected and also provides the opportunity to continue the BC host agent installation in the event that the LAN is down or the BC server platform is offline.

- If this check fails, [Figure 16](#) displays.



Figure 16: Unable to ping BC server platform failure message

- Click **Yes** to continue the installation using the BC server platform name entered in [step 9](#).
- Click **No** to display [Figure 15](#) and continue the installation at [step 9](#).
- If this check succeeds, [Figure 17](#) displays.



Figure 17: Start BC Daemons

11. Click **Yes** to start BC daemons; click **No** to defer BC daemons.

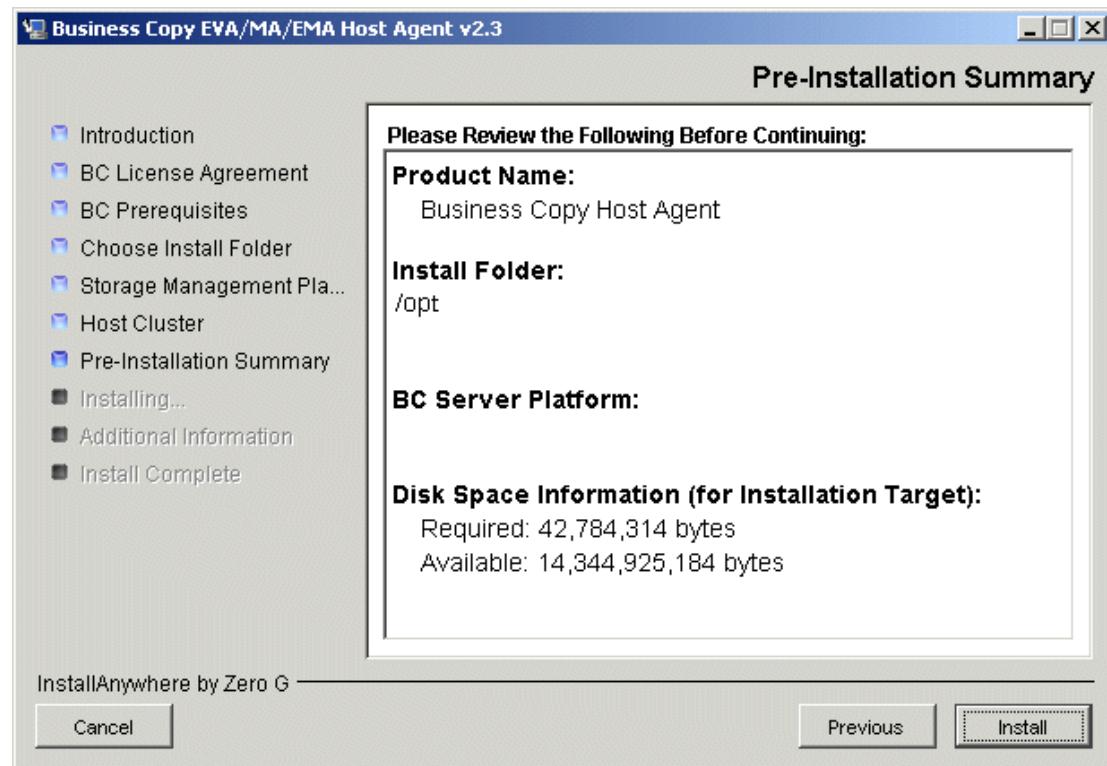


Figure 18: Pre-installation Summary

12. Review the summary information.
13. If the summary information is:
 - Not correct, click **Previous** or **Cancel**.
 - Correct, click **Install**.
An installation progress window briefly displays as the BC host agent software installs.

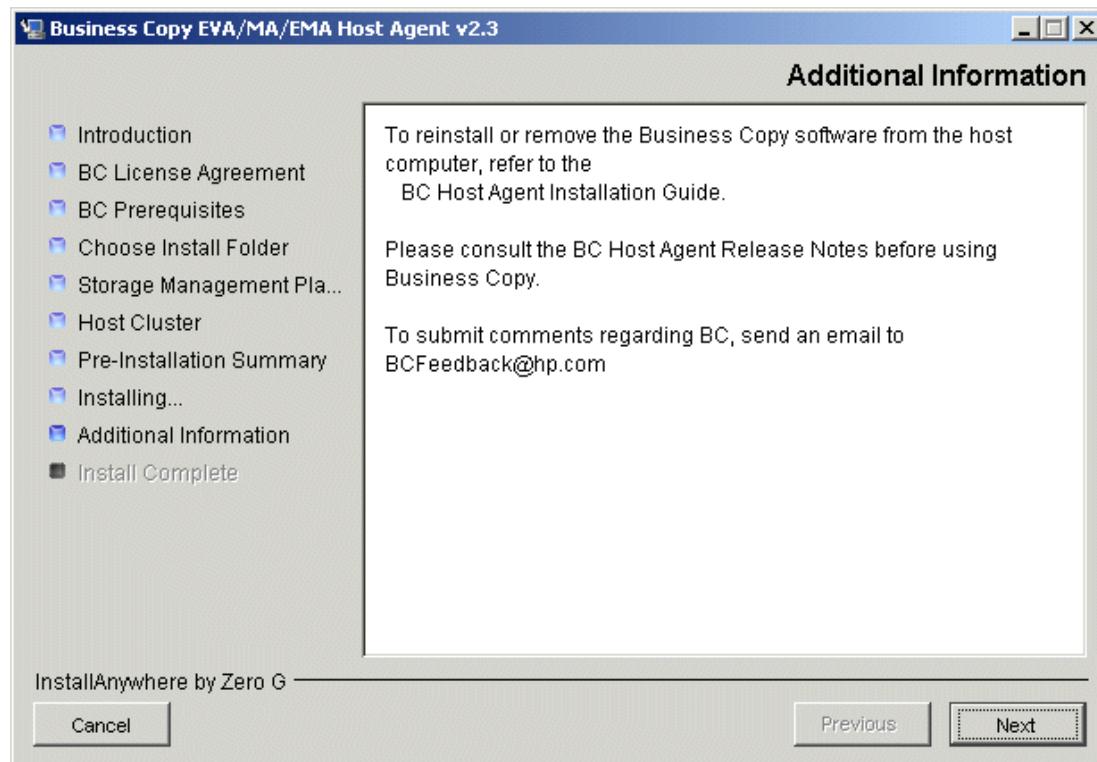


Figure 19: Additional Information

14. Click **Next**.

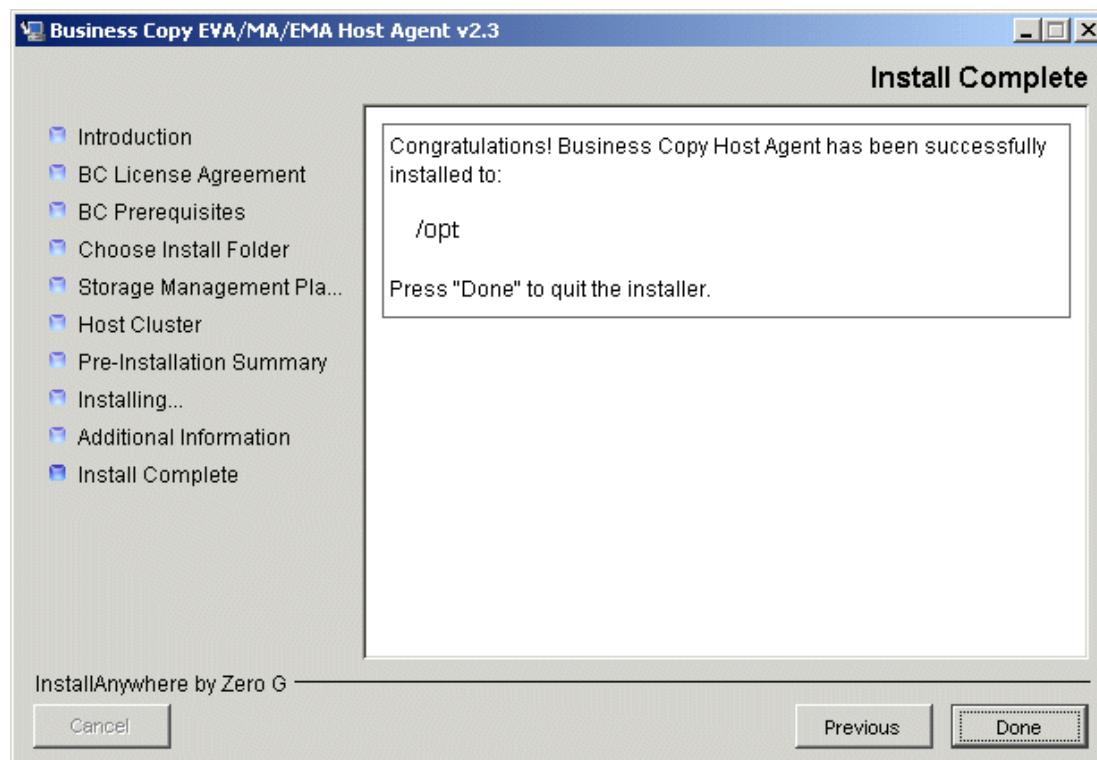


Figure 20: Install Complete

15. Click **Done**.

The BC host agent software is now installed. This new BC-enabled host can now communicate with the BC server and participate in BC jobs. Refer to the BC Host Agent Release Notes before using BC.

Completing the installation

If the BC host agent was started during installation, HP recommends browsing to the BC network and verifying that the BC host agent is recognized. Otherwise, perform the verification after manually starting the host agent.

Completing the host agent installation topics include:

- [Manually starting and stopping the Business Copy host agent](#)
- [Browsing to the Business Copy network](#)
- [Verifying that the BC host agent is recognized](#)
- [System files modified during installation and removal](#)

Manually starting and stopping the Business Copy host agent

Refer to the BC Network Administration Guide for the procedures to manually start or stop service on a BC host agent.

Browsing to the Business Copy network

To browse to the BC network, the browsing computer must have a BC-supported browser and JRE installed.

Refer to the BC Network Administration Guide and *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Server Release Notes* (T3032-98201) for details.

Verifying that the BC host agent is recognized

To verify that a BC host agent is being recognized by the BC server platform, complete the following procedure:

1. Browse to and log in to the BC server platform.
The BC GUI displays. Refer to the BC Network Administration Guide, if necessary to access the BC GUI.
2. Click **Help**.
3. Click **About Business Copy**.
Verify that the BC version number is 2.3.
4. Click **Resources**.
5. Review the Resources page to verify that this host is included in the host resources display.
A successful installation displays the BC host agent on this page.
6. Continue to the next host-specific BC Host Agent Installation Guide to add other BC host agents to this BC network or to update existing agents.

System files modified during installation and removal

During the BC host agent installation process, the following host computer system file is modified: `/etc/services`.

Sample entries added to the `/etc/services` file include:

```
switchboard 4991/tcp  #CPQevm switchboard application
bdctrvcv 4995/udp  #CPQevm broadcast receiver application
```

During the BC host agent removal process, this file is modified again to remove the BC entries that were added during the installation process.

Reinstalling the Business Copy Host Agent

Situations may arise where a change in the BC network requires a change to BC server information stored by the BC host agent. For example:

- The BC server platform is renamed or replaced.
- The BC server platform IP address changes.
- The BC server software is moved to a different BC server platform.
- A network name changes.
- A host computer is reassigned for use with a different BC server platform.

For these situations, reinstalling the BC host agent may be appropriate.



Caution: Make sure that all personnel involved with using storage systems associated with this BC environment are informed of the impending BC reinstallation. If not properly planned and coordinated, reinstalling a BC host agent while the host agent is involved in running a BC job can result in reduced operational capabilities and loss of data.

Two reinstallation methods exist:

- One-step reinstallation—With this method, reinstall the BC host agent using “[Installing the Business Copy Host Agent](#)” on page 13. When prompted, allow the installation script to write over the existing host agent, and then install the BC host agent.
- Two-step reinstallation—With this method, remove the BC host agent using “[Removing the Business Copy Host Agent](#)” on page 33. Then reinstall the BC host agent using the procedure in “[Installing the Business Copy Host Agent](#)” on page 13.

Reinstalling BC host agent software replaces only the BC files from the current installation.

Removing the Business Copy Host Agent

Removing BC host agent software involves the following major steps:

1. [Coordinating removal activities](#), page 34
2. [Starting the removal](#), page 35
3. [Completing the removal](#), page 38

Coordinating removal activities

Removing a BC host agent requires coordination to make sure that the software is removed cleanly from the host.



Caution: Make sure that all personnel using storage systems associated with this BC environment are informed of the impending BC removal. Removing a BC host agent while the host agent is running a BC job can result in reduced operational capabilities and loss of data.

Ensure that:

- No BC jobs that involve the host are running or “undoing” during the removal
- No BC jobs that involve the host are scheduled to run or “undo” during the removal
- Removal activities have been coordinated with BC users and other operations

Be aware that:

- Stopping a BC host agent prevents the host computer from being recognized by the BC network
- Stopping a BC host agent prevents any jobs involving that host from running successfully

When ready, go to the next section.

Starting the removal

BC provides two removal methods for Linux: command console and GUI.

Note: Do not use RPM to uninstall BC host agent software. RPM does not do a proper clean-up of BC during the removal process.

Command console removal method

Complete the following procedure to remove the BC host agent software from a host.

Note: During the removal procedure, press **Enter** to choose the default response.

1. Open a terminal window and log on as a super-user.
2. Change the working folder to any folder other than the BC host agent folder.

Note: HP recommends initiating the BC host agent removal from outside the BC host agent folder to prevent the display of errors during the removal.

3. Enter `/opt/CPQevm/UninstallerData/Uninstall_Business_Copy` to initiate the removal script.

```
Preparing CONSOLE Mode Installation
=====
Business Copy EVA/MA/EVA Host Agent v2.3 (created with InstallAnywhere by Zero G)
-----
=====
About to uninstall...
-----
This will remove features installed by InstallAnywhere. It will not remove files and
folders created after the installation.
PRESS <ENTER> TO CONTINUE:
-----
Uninstalling...
-----
...
...
-----
Uninstall Complete
-----
All items were successfully uninstalled.
```

Figure 21: BC removal status

The command prompt returns when the BC host agent removal is complete.

GUI removal method

Complete the following procedure to remove the BC host agent from a host.

1. On the host computer, open a terminal window and log on as a super-user.
2. Enter `/opt/CPQevm/UninstallerData/Uninstall_Business_Copy_v2.3_Host_Agent -i gui` to initiate the removal.

Note: Click **Cancel** at any time to exit setup.

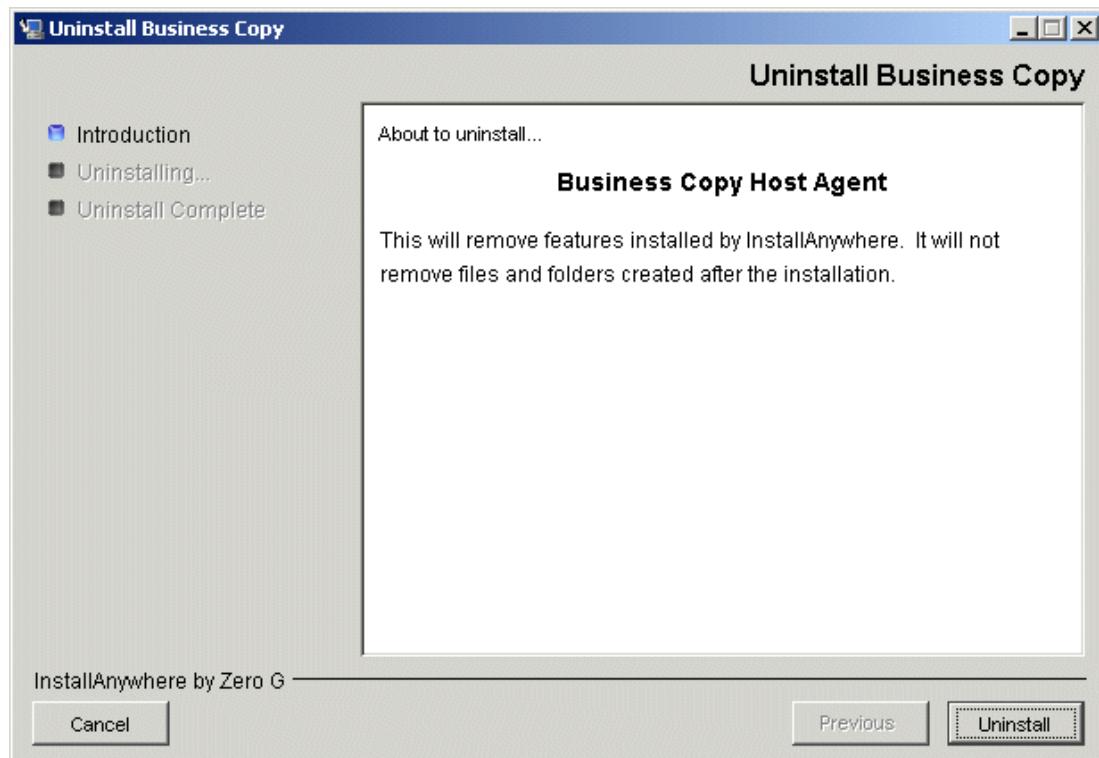


Figure 22: Uninstall Business Copy Host Agent

3. Click **Uninstall** to uninstall the BC host agent software from the host.

A Setup Status window is briefly displayed during the removal of BC files. File removal can take anywhere from a few seconds to several minutes. No action is required.

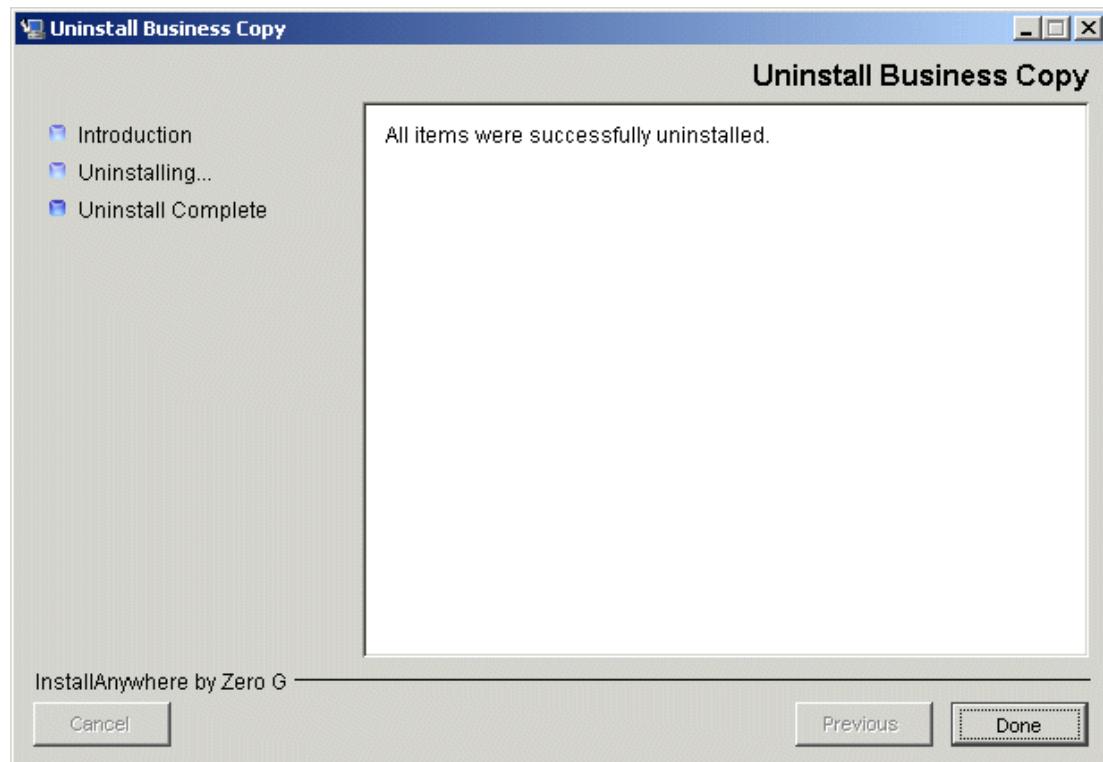


Figure 23: Uninstall Business Copy host agent complete

4. Click **Done** to exit setup.

The BC host agent is now removed from this host computer.

Completing the removal

After the BC host agent is removed, the computer can no longer participate in BC jobs. Running any BC job that involves this computer causes the job to fail.

HP recommends planning for the disposition of each BC job that involves this computer. For example:

- Delete the job (if the job will not be valid again).
- Change the job (to eliminate all references to this host computer).
- Leave the job as is (if the job might be used again).

From a BC network perspective, a BC host agent removal is not complete until all impacted BC jobs are resolved.

glossary

This glossary defines terms that are used in this guide or are related to BC.

BC environment

A SAN environment in which Business Copy replication features are available. BC features can be available through various means, such as: storage managers, BC server and jobs, BC host agents, command line interfaces, and script files.

BC network

The portion of a SAN that consists of a BC server connected via LAN to BC-enabled host computers.

BC server platform

An SMA or SMS with BC server software installed.

See also [Storage Management Appliance](#) and [Storage Management Server](#).

daemon

Diagnostic and Execution Monitor. Pronounced “demon.” A program usually associated with a UNIX® system that performs a utility (housekeeping or maintenance) function without being requested or even known by the user.

host

In networked storage, a computer that can perform I/O with a storage array. In general networking, any computer on a network that provides a service.

host agent

In a client/server system, a program that performs information gathering or processes tasks on behalf of a client or server. Agents often communicate with other agents to perform a collective task on behalf of the user.

host, BC-enabled

A host computer that has BC host agent software installed. Compare to standard host.

instance

The presence of a program or set of related programs in a computer or storage system.

job (BC job)

A file created by BC that represents a user request to perform a task or series of tasks. For example, the BC job named `sales_daily_backup` might:

1. Replicate virtual disks to create BCVs.
2. Mount the BCV on a server.
3. Start the tape backup of the BCV. Jobs can be created and run from the GUI, the BC command line (EVMCL), script files, or a scheduler.

OpenView

An HP line of software products that provides storage management solutions, data protection and recovery, automatic performance tuning, storage virtualization, and other features for multivendor storage environments.

SAN

Storage Area Network. A dedicated, high-speed network of storage devices that are available to servers on a LAN or WAN. As storage devices are added to the SAN, they become accessible to the servers in the larger network.

server

A computer or program that provides a service to other computers in a client/server system. Servers often run continuously, waiting for requests from clients.

SMA

See [Storage Management Appliance](#).

SMS

See [Storage Management Server](#).

storage manager

A Web-based storage environment manager that enables a user to configure and monitor MA/EMA or EVA controllers. The HSG Element Manager resides on the Storage Management Appliance (SMA); Command View EVA resides on the BC server platform.

Storage Management Appliance

SMA. A host-independent server product designed to connect directly to the SAN fabric. The SMA provides a centralized point for managing and monitoring SAN elements, including HP switches and storage arrays. SMA software installed on the appliance provides a GUI interface for accessing the monitored SAN environment. The SMA software also provides a launch site for a variety of value-added HP OpenView applications and provides navigation links to directly manage storage components on the SAN.

Storage Management Server

SMS. Any HP supported hardware-software platform that is not connected to the SAN fabric and that does not serve as a storage host. SMS software installed on a platform provides a GUI interface for accessing the monitored SAN environment.

StorageWorks

An HP line of hardware and software storage solutions that provides storage management solutions, data protection and recovery, automatic performance tuning, storage virtualization, and other features for multivendor storage environments.

unit (MA/EMA only)

In StorageWorks storage systems, an identifier that the controller uses when a container is mounted on a host computer. For example, the unit identifier DI could represent a RAID 0+1 striped mirror set that is mounted on a host computer. StorageWorks disk units begin with the letter D and tape units begin with the letter T.

virtual disk (EVA only)

In StorageWorks storage systems, a simulated disk that is created from physical disks in a storage array for use by hosts.

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